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SUBJECTS : CZECH 85 mm GUN, AUX/PROP 85 mm GUN & THE 107 mm RECOILESS GUN.

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THE 85 mm CZECH FD A.TK GUN.

The 1st and 2nd Btys were equipped with these guns in June/July 57, each Bty recieving six guns; All the guns were brand new and were of CZECH origin, all inscriptions etc were in the CZECH language.

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the guns had been evolved from several well known types of arty and still incorporated several of the original features; The main features were as follows:-

The barrel	: evolved from the German 8.8.
The Breech etc	: evolved from the Russian 76 mm.
The gun carriage	: evolved from the from several old CZECH guns.

The gun was simply referred to as the 85 mm to distinguish between it and the Russian aux/prop 85 mm, but, as its role was both fd and anti-tk always referred to it as such.

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The barrel was about 50 cm longer than the Russian 85 mm and the shield much more curved and about 20 cm higher; the shield was about 10 mm thick.

the traverse was very easily man-handled and could be swung round very quickly. The elevation was about +36 degrees and the depression exactly -5 degrees.

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The max range was 15.000 metres and the muzzle velocity 1200 metres per second. Ammo was e actly the same and was interchangeable with the Russian 85 mm

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VERTICAL FILE

The exact figures for armour penetration were not known but [redacted] it would penetrate any known tank at a range of 1000 metres and that was the reason for the very high muzzle velocity. 25X1

The gun was equipped with three types of sights as follows:-

A panoramic sight fitted to the right of the barrel when required but, when not in action, carried in a metal case attached to the trails. This sight had 60 graticules each one representing six seconds giving a total of 6 degrees.

A telescopic sight with simple cross wires; this was used only for direct fire.

A normal type fore and back sight as on a rifle, used if the other sights were out of action, or to give a very rough approximate aim.

In addition to the panoramic sight, the metal case attached to the trails also contained a few spare parts, tools and cleaning kit etc.

No further details were available.

THE AUX/PROP 85mm GUN.

[redacted] The engine wasa 750 cc 'MOLOTOW' MC meter with a fuel tank of 50 litres capacity in one or other of the trail legs. The max speed on roads with the gun team of six men mounted, was 30 - 35 Km per hour; the max across country was not known. 25X1

The drive was to the auxilery wheel, the engine being coupled by a shaft directly on to the wheel hub. There were three forward and one reverse gears. When not required the wheel was uncoupled from the engine and folded on top of the trail leg. The range etc was not known and no further details were available.

THE 107 mm RECOILESS GUN.

Two of these guns [redacted] were used for instructional purposes with thw regt NCO's school. 25X1

[redacted] 25X1

[redacted] the projectile was a rocket inasmuch as it carried its own propellant charge with it and increased speed [redacted] in the air. [redacted] seen [redacted] a demonstration [redacted] on that occasion, they erected a 20 cm thick steel plate in front of another one, 12 cm thick, the gap between them being 50 cm. The projectile penetrated both plates [redacted] 25X1 25X1

[redacted] 25X1

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Country: CZECHOSLOVAKIA.

Subject: (1) Synthetic Fuel Plant - STALINOVY ZAVODY, NARODNI PODNIK ZALUZI v KRUSNICH HORACH, CSR

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(2) Iron and Steel Works V.M. MOLOTOV in TRINEC, CSR .

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(1) Synthetic Fuel Plant, STALINOVY ZAVODY, NARODNI PODNIK ZALUZI v KRUSNICH HORACH, CSR.

the gas generating department of the above works

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(a) General

Apart from the general production of gas for household and industrial purposes the gas generating plant had a secondary output of diesel oil amounting to approx. 40 tons per each 24 hour shift; the main diesel production originated from

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the so-called carbonisation department,

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that department used during the summer months about 16,000 tons of soft coal per day, per 24 hour shift. The production of gas for domestic and industrial purposes was during the summer months per 24 hour shift 300,000 - 350,000 cub. metres, rising in winter to 450,000 - 550,000 cub. metres per 24 hour shift.

The works had its own oxygen plant of unknown capacity; there was also a power station

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reputed to be the second largest in the CSR.

(b) Comments

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gaseous oxygen was being manufactured at the works

there was an ammonia production of unknown quantity. There were no other details.

(2) Iron and Steel Works V.M. MOLOTOV in TRINEC, CSR.

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(a) General

In all, the works had about 30-32 coke batteries.

six open hearth furnaces and three ovens.

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the power plant although it was very large could not cope with the requirements and additional electric power had to be drawn from MORAVSKA OSTRAVA.

No further details available.

END OF REPORT

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